





APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/742,421	-12/22/2000	Sofiene Affes	AP660761US 8016	
7590 06/01/2004		EXAMINER		
Thomas Adams & Assoc.			BOCURE, TESFALDET	
P.O. Box 11100 Station H, Ottawa, ON K2H 7T8			ART UNIT	PAPER NUMBER
CANADA			2631	
			DATE MAILED: 06/01/2004	1 <u>.</u>

Please find below and/or attached an Office communication concerning this application or proceeding.

	A disable No.	ANo
	Application No.	Applicant(s)
. Office Action Summany	09/742,421	AFFES ET AL.
· Office Action Summary	Examiner	Art Unit
The MAILING DATE of this communication app	Tesfaldet Bocure	2631
Period for Reply	ears on the cover sheet with the c	orrespondence address =
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE.	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
<ul> <li>1) Responsive to communication(s) filed on 22 December 2a) This action is FINAL. 2b) This</li> <li>3) Since this application is in condition for allowant closed in accordance with the practice under Expression 1.</li> </ul>	action is non-final. ace except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-71 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 1-48 and 50-71 is/are allowed. 6) ☐ Claim(s) 49 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or		
Application Papers	•	
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 22 December 2000 is/ar Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	re: a) $\square$ accepted or b) $\square$ object drawing(s) be held in abeyance. See non is required if the drawing(s) is object.	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4&5.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

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#### **DETAILED ACTION**

# **Priority**

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Canada on 12/22/00. It is noted, however, that applicant has not filed a certified copy of the Canadian application as required by 35 U.S.C. 119(b).

#### Information Disclosure Statement

2. The information disclosure statements filed June 11, 2001 and July 2, 2001 fail to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each U.S. and foreign patent; each publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered. Please note that the IDSs of June 11, 2001 and July 2, 2001 have been considered in part because the cited references, Item 1B of the IDS received on July 2, 2001 and items 1R-5B in the IDS received on June 1, 2001, are not readily available to the Examiner.

# Claim Rejections - 35 USC § 103

3. Claim 49 is rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Own Admitted Prior Art (AOAPA) Art fig. 5 in view of Bensley et al. (IEEE, Maximum-Likelihood Synchronization of a Single User for Cod-Division Multiple Access Communication Systems).

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(AOAPA) Art fig. 5 shows a spread spectrum receiver having the claimed means for processing (18), means for despreading (19), means for beamforming (27), means for driving (29), and means for channel identifying (28).

However (AOAPA) Art fig. 5 fails to show the means for reshaping as in claim 49.

Bensley for the same endeavor as the instant application and that of (AOAPA) teaches a spread spectrum receiver for mitigating noise due to of the multiple access interference using an observation vector (claimed reshaping means for generating an observation vector).

Therefore, it would have been obvious to one of an ordinary skill in the art to use the observation vector of Bensley in the (AOAPA) Art fig. 5 in order to mitigate noise or interferences from the received spread spectrum at the time the invention was made.

# Allowable Subject Matter

Claims 1-48 and 50-71 are allowed.

### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US patent numbers 5,845,208, 5,867,411 and 6,240,098 issued to Hottinen et al., Kumar and Thibault et al. respectively disclose a spread spectrum communication system having means for generating an observation vector from the received observation matrix.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tesfaldet Bocure whose telephone number is (703) 305-4735. The examiner can normally be reached on Mon-Thur (7:30a-5:00p) & Mon.-Fri (7:30a-5:00p).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H Ghayour can be reached on (703) 306-3034. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

T.Bocure